Alberta

Swine Improvement Program

1988

Annual Report

Alberta AGRICULTURE
Pork Industry Branch

Agriculture Canada

ASBA
Alberta Swine Breeders Association

1988 ANNUAL REPORT

Compiled by
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The Swine Improvement Program in Alberta is a joint Federal-Provincial program for both seedstock and commercial swine producers.

The performance testing program for breeding stock producers is a two part program consisting of:

1. An "on farm" performance test of backfat and growth rate of boars and gilts performed by provincial staff.
2. A central station test of boars for backfat and average daily gain at either the Leduc or Lacombe test stations which are owned by Agriculture Canada. The Alberta Swine Breeders Association (ASBA) took over operation of the Leduc station on April 1 and the Lacombe station December 1.

Commercial producers may use the ultrasonic home test program for the selection of gilts within their herd providing they meet certain basic requirements.

The Sow Productivity and Management Program is available for either breeding stock or commercial operators to record production parameters of their sows on an individual and herd basis.

The Alberta Swine Improvement Advisory Committee (ASIAC) for 1988 consisted of the following members:

F. W. Schuld (Chairman) Head, Pork Industry Branch, Alberta Agriculture
M. Southwood (Secretary) - Program Officer, Implementation, Agriculture Development Branch, Agriculture Canada
A. Lange - Supervisor, Swine Improvement, Alberta Agriculture representative
C. Gerry - Alberta Agriculture appointed producer
B. Reiter - Alberta Agriculture appointed producer
J. Vandendool - Alberta Agriculture appointed producer
J. Knobben - Alberta Swine Breeders Association appointed producer
G. Matejka - Alberta Swine Breeders Association appointed producer
W. Weber - Alberta Swine Breeders Association appointed producer
A. Toles - Alberta Pork Producers Marketing Board representative
B. Milne - Western Hog Growers Association representative

Advisory Members:
Dr. F. X. Aherne - Swine Nutritionist, University of Alberta
Dr. A. P. Sather - Animal Geneticist, Lacombe Research Station
Dr. G. Finell - Swine Herd Health Program, Alberta Agriculture

Ex-Officio Members:
K. J. Spiller - Director, Animal Industry Division, Alberta Agriculture
T. Hayward - Regional Director, Agriculture Development Branch, Agriculture Canada

THE ALBERTA SWINE IMPROVEMENT PROGRAM IN 1988

The data portion of this report is divided as follows:

PART A General Data

Table I (page 5)	Alberta Swine Improvement Program - Performance Testing Summary 1984-1988
Table II (page 6)	Boars Home Tested 1978-88
Table III (page 6)	Gilts Home Tested 1978-88

PART B Test Station Results

Table IV (page 7)	1988 Test Station Summary Leduc (Nisku) Station
	1988 Test Station Summary
(page 8)	Lacombe Station
Table IVA (page 9)	1987 Test Station Summary Leduc (Nisku) Station
(page 10)	1987 Test Station Summary for Lacombe Station
Table V (page 11)	Culling Information (Reason for Culling) Leduc Station 1988 and 1987
	Lacombe Station 1988 and 1987
pgs 12-15	1988 Test Station Sire Summaries
Table VI (page 16)	Boar Sale Activity in Alberta 1978-88

PART C Home Test Results

Table VII (page 17)	Alberta Swine Home Testing Activity 1988 Summary
Table VIIA (page 17)	Alberta Swine Home Testing Activity 1987 Summary
Table VIII (page 18)	Performance Figures for Home Tested Boars - By Breed 1988 and 1987
Table IX (page 18)	Performance Figures for Home Tested Gilts - By Breed 1988 and 1987
Table X (page 19)	Performance Figures by Breed for Seedstock and Commercial farms.
Table XI (pgs 20-29)	Home Test Averages by Sex and Breed for All Farms
Table XII (page 30)	Sow Productivity and Management Program.

The year's events were quite numerous and are summarized on a monthly basis as follows:

1. January. The Deloitte Haskins study into Alberta Swine Improvement (ROP) programs was finally completed. It recommended that the Alberta Swine Breeders Association (ASBA) was the logical body to take over operation of one or both test stations from the federal government. If that proved to be a successful venture, the report recommended that a new body be formed, tentatively called the Alberta Swine Genetic

Improvement Corporation. This body would operate the A.I. unit and test stations. It would be run by a board of largely ASBA members but would have government and industry representation. The report further recommended that the home test program remain under provincial government control and operation for the foreseeable future.

2. February. At their annual meeting in February, ASBA signed the agreement to operate the Leduc (Nisku) test station starting April 1.

3. April. Agriculture Canada closed the Lacombe station but gave ASBA six months to decide whether they want to operate it or not.

   ASBA takes over operation of the Leduc station. The transition from Agriculture Canada to ASBA management was not without problems, but those were overcome.

   The Alberta government announced fees for home testing for the first time in the history of the program. Implementation was delayed to the fall to allow time to "gear up" the necessary administration.

4. May. Agriculture Canada brought the probe data computer module to Alberta. This meant that all data (probe and sow productivity) had to be entered at the provincial level.

5. June. ASBA members met at the Pork Congress and decided to re-open the Lacombe test station in the fall since Leduc was oversubscribed. The station was offered for the exclusive use of "high health" herds but there was not sufficient commitment to warrant this.

6. September. Enrolment forms were sent out to all existing herds on the home test program. Out of 65 sent out, 50 paid. Some attrition was due to multi breeder number herds (e.g. father and son) only paying one enrolment fee.

7. October. The Alberta Swine Improvement Advisory Committee (ASIAC) met early in the month to discuss issues and decide Alberta positions for the national board meeting later in the month.

   The Canadian Swine Improvement Advisory Board (CSIAB) met in Charlottetown with Walter Weber and Art Lange attending as provincial representatives.

8. November. Alberta Agriculture acquired portable computers for all technicians and started training. This is the final step to make EBV calculations on the farm fully operational.

9. December. ASBA opened the Lacombe test station and the 32 available pens were filled.

The transfer of the test station operation from Agriculture Canada to ASBA resulted in a number of staff changes. Andrew Simpson left Agriculture Canada to take a position with the Department of National Defense. Stewart Smith retired and Jim Lamb left to take a position in private industry. The staff hired by ASBA were Don Plain as manager and Albert Eringfeld as his assistant at Leduc. Albert moved to Lacombe when it opened in December.

Melvin Reid was hired to assist Don at Leduc. Ian Clarke is assisting Albert Eringfeld on weekends at Lacombe.

On the provincial scene, there was only one staff change. Carman Conrad left his technician's position in Lethbridge in August to fill a new position at the Swine Breeding (A.I.) Center at Leduc. Elaine Klassen was hired on a part-time basis to replace him.

PART A - GENERAL DATA

TABLE I

ALBERTA SWINE IMPROVEMENT PROGRAM
PERFORMANCE TESTING SUMMARY
1984 - 1988

Boars Station Tested	1984	1985	1986	1987	1988
Number	872	794	638	652	572
Avg. Backfat thickness (mm)	14.0	14.5	14.4	14.1	13.6
Avg. daily gain (kg)	0.91	0.92	0.91	0.90	0.90
Avg. feed conversion	2.45	2.41	2.48	2.47	2.44
Avg. age to 90 kg. (days)	144	145	144	145	143
Boars Home Tested					
Number	6,164	5,641	5,461	6216	6269
Avg. backfat thickness (mm)	14.1	14.3	13.8	13.3	13.0
Avg. age to 90 kg. (days)	157	157	155	154	153
TOTAL BOARS TESTED	7,036	6,435	6,035	6,868	6841
Gilts Home Tested					
Number	12,004	12,474	11,651	12,931	12915
Avg. backfat thickness (mm)	15.4	15.6	15.2	14.4	14.0
Avg. age to 90 kg. (days)	171	169	167	163	161
TOTAL PIGS TESTED	19,040	18,909	17,750	19,799	19,756

TABLE II

BOARS HOME TESTED - 1978 - 1988

YEAR	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE AT 90 KG. (days)
1978	2,676	15.4	167
1979	3,937	15.0	172
1980	4,207	14.6	171
1981	4,201	14.4	166
1982	4,750	13.9	162
1983	5,851	13.9	159
1984	6,164	14.1	157
1985	5,641	14.3	157
1986	5,461	13.8	155
1987	6,216	13.3	154
1988	6,269	13.0	153

TABLE III

GILTS HOME TESTED - 1978 - 1988

1978	7,790	16.8	177
1979	9,988	16.0	177
1980	9,664	15.7	174
1981	9,778	15.8	174
1982	10,990	15.2	172
1983	11,809	14.8	167
1984	12,004	15.4	171
1985	12,474	15.6	169
1986	11,651	15.2	167
1987	12,931	14.4	163
1988	12,915	14.0	161

PART B: TEST STATION RESULTS

TABLE IV

1988 TEST STATION SUMMARY

LEDUC (NISKU) STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	322	94	30	22	14	2	484
NUMBER TESTED	316	94	30	21	14	2	477
AVERAGE BACKFAT at 90 kg (mm)	13.3.	13.8	13.5	14.1	14.5	13.4	13.5
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.89	0.89	0.91	0.94	0.87	0.80	0.89
FEED CONVERSION (kg feed/kg gain)	2.41	2.50	2.45	2.46	2.49	2.55	2.44
AVERAGE AGE @ 90 kg (days)	144	141	142	147	144	145	143
NUMBER CULLED	170	50	15	15	11	2	263
NUMBER UNSOLD	37	9	5		2		53
NUMBER SOLD	115	35	10	7	1		168
TOTAL PRICE	55,800.	16,400.	4,500.	2,850.	400.		79,950.
AVERAGE PRICE	485.22	468.57	450.00	407.14	400.00		475.89

TABLE IV

1988 STATION TEST SUMMARY

LACOMBE STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	TOTAL
NUMBER ENTERED	68	14	6	8	2	98
NUMBER TESTED	67	14	6	8	2	97
AVERAGE BACKFAT @ 90 kg (mm)	13.5	13.8	14.7	15.0	16.7	13.8
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.90	0.93	0.95	0.92	0.86	0.91
FEED CONVERSION (kg feed/kg gain)	2.43	2.50	2.49	2.45	2.51	2.44
AVERAGE AGE @ 90 kg (days)	144	136	144	134	138	142
NUMBER CULLED	38	5	1	6	2	52
NUMBER UNSOLD	4	2	1			7
NUMBER SOLD	26	7	4	2		39
TOTAL PRICE	16,375.	3,775.	1,475.	900.		22,525.
AVERAGE PRICE	629.81	539.29	368.75	450.00		577.56

The Lacombe station was closed March 31, 1988 when operation by Agriculture Canada ceased. It reopened December 1 when the Alberta Swine Breeders Association (ASBA) assumed operation of the station.

TABLE IVa

1987 TEST STATION SUMMARY

LEDUC (NISKU) STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	RED WATTLE	TOTAL
NUMBER ENTERED	238	56	24	24	8	6	356
NUMBER TESTED	233	53	22	24	7	2	341
AVERAGE BACKFAT at 90 kg (mm)	13.8	13.8	14.0	13.0	14.6	23.2	13.9
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.88	0.86	0.87	0.91	0.88	0.94	0.88
FEED CONVERSION (kg feed/kg gain)	2.45	2.54	2.55	2.45	2.57	2.45	2.47
AVERAGE AGE @ 90 kg (days)	146	143	145	148	156	140	146
NUMBER CULLED	125	32	14	12	5	6	194
NUMBER UNSOLD	34	3	4	1			42
NUMBER SOLD	79	21	6	11	3		120
TOTAL PRICE	41,700.	11,425.	2,400.	5,075.	1,275		61,875.
AVERAGE PRICE	527.85	544.05	400.00	461.36	425.00		515.63

TABLE IVa

1987 STATION TEST SUMMARY

LACOMBE STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	RED WATTLES	TOTAL
NUMBER ENTERED	228	36	24	18	8	4	2	320
NUMBER TESTED	220	36	23	18	8	4	2	311
AVERAGE BACKFAT @ 90 kg (mm)	14.1	14.1	15.0	13.9	14.6	13.7	27.0	14.3
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.92	0.86	0.92	0.94	0.88	0.87	0.99	0.91
FEED CONVERSION (kg feed/kg gain)	2.43	2.58	2.49	2.50	2.45	2.41	2.57	2.47
AVERAGE AGE @ 90 kg (days)	144	143	141	149	150	153	137	144
NUMBER CULLED	103	22	18	5	5	2	2	157
NUMBER UNSOLD	24	3	3	5				35
NUMBER SOLD	91	11	3	8	3	2		118
TOTAL PRICE	46,835.	5,850.	1,100.	3,750.	1,025.	725.		59,285.
AVERAGE PRICE	514.67	531.82	366.67	468.75	341.67	361.50		502.42

TABLE V

CULLING INFORMATION

REASONS FOR CULLING: 1988 & 1987

	LEDUC TEST STATION				LACOMBE TEST STATION			
	1988	%**	1987	%**	1988	%**	1987	%**
Total Culled*	263	54.0	194	54.0	52	53.0	157	49.0
Performance	206	42.6	150	42.0	41	41.8	123	38.0
Feet and Legs	28	5.8	22	6.0	10	10.2	25	7.8
Underline***								
Testicles	2	0.4	1	0.3				
Rupture								
Abscess								
Died	4	0.8	2	0.6			3	0.9
Shaking	5	1.0			1	1.0		
Returned to Breeder	3	0.6	2	0.6				
Bloody Urine								
Ridgling								
Enlarged Sheath	2	0.4	2	0.6				
Ulcers	1	0.2	1	0.3				
Prolapsed Anus			1	0.3				
Undershot Jaw								
Illness	4	0.8	3	0.8			2	0.6
Lack of Condition	1	0.2	4	1.1				
Sent to Lab								
Halothane			3	0.8			3	0.9
Castrated			3	0.8			1	0.3
Other	7	1.4						
Total Entered	484		356		98		320	

* Total pigs culled may be for one or more reasons.

** % shown is calculated as a proportion of total pigs entered.

***Boars with defective underlines are not culled but moved to the end of the sale order and announced as such to the buyers.

1988 TEST STATION SIRE EVALUATIONS

Listed below are all sires who had progeny tested in the Alberta stations. The results are shown as deviations from the average. A minimum of 8 progeny are required for a sire evaluation. The coding following the sires' identification is thus:

N - is a new evaluation started and completed in 1988.

C - is an evaluation started in a previous year and completed in 1988.

U - is an evaluation completed in 1987 with additional progeny tested in 1988.

It should be remembered that the desirable sires exhibit the following characteristics:

- negative figures for backfat, feed conversion and age
- positive figures for average daily gain
- index value over 100

Age and feed conversion are not included in the test station index but are shown for information only.

A.I. sire information is shown only once at the end. Results for these are taken from progeny submitted by many breeders.

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Acadia Breeders	ACA 88W	York	2	Incomplete				
	ARHL 96W	York	2	Incomplete				
	ARHL 890U	York	4	Incomplete				
	JKAA 13804U	York	6	Incomplete				
	MILN 433W	York	2	Incomplete				
	RITR 505U	York	4	Incomplete				
	ARHL 84W	Land	2	Incomplete				
	ARHL 739U	Land (C)	12	-1.3	0.00	-0.01	-3.3	116.5
	ARHL 1044U	Land (N)	12	-2.0	0.02	+0.08	-1.2	118.2
	MILN 415W	Land	2	Incomplete				
	MILN 600W	Land	6	Incomplete				
	RITR 658W	Land	2	Incomplete				
	ROYS 13W	Land	4	Incomplete				
Eringfeld, B.	AREE 192U	York (U)	10	+0.1	-0.02	-0.21	0.0	95.3
	KKEF 768W	York	4	Incomplete				
	KKEF 3084T	York (U)	10	+0.4	-0.07	+0.09	0.0	81.2
	RITR 84W	York	7	+0.1	-0.01	-0.02	0.0	97.4
	TONY 1155W	Land	2	Incomplete				
Five Lakes Farms Ltd.	ARHL 707U	York (N)	16	-0.6	+0.07	-0.07	+1.3	121.1
	JKAA 1602W	York	4	Incomplete				
	JKAA 5005U	York (U)	14	-0.2	-0.02	0.00	0.0	98.1
	JKAA 9201U	York	6	-0.6	-0.01	+0.02	0.0	103.8
	JKAA 15705U	York	2	Incomplete				
	RITR 97W	York (N)	20	-0.3	+0.05	-0.08	-1.0	113.9
	RITR 964T	York (U)	11	-0.6	-0.02	+0.13	0.0	98.3
	BL 2504U	Lac	6	Incomplete				

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Five Lakes Farms (continued)	JA 5204U	Lac	4	Incomplete				
	JA 7805U	Lac	2	Incomplete				
	JA 16501U	Lac	2	Incomplete				
	JKAA 8103U	Hamp (C)	8	+0.09	-0.01	+0.13	0.0	86.1
	NP 5405W	Hamp	4	Incomplete				
Gilt Line Farms Ltd.	ASPX 182U	York	4	Incomplete				
	MILN 327T	York	4	Incomplete				
	NPD 320W	York (N)	8	-0.1	-0.08	+0.01	0.0	83.3
	ASCG 351U	Duroc	4	Incomplete				
Gwynne Vista Farms	GWYN 6304U	York	4	Incomplete				
	JKAA 4308U	York	5	Incomplete				
	JA 6007W	Lac (N)	8	-1.3	+0.01	0.00	-2.4	118.3
	KR 11806U	Lac (N)	8	+0.4	+0.04	-0.04	-3.8	103.3
	KR 12802U	Lac (N)	9	-0.4	+0.03	-0.08	-6.6	113.9
Knobben, John or Garry	AOVX 66W	York	2	Incomplete				
	AREE 53W	York	2	Incomplete				
	GARY 42S	York	7	Incomplete				
	RITR 1477W	York	2	Incomplete				
	AREE 2W	Land	6	Incomplete				
Matejka, G., T. or S.	DOUG 354T	York (U)	29	-1.8	+0.01	-0.05	0.0	118.8
	GARY 91W	York	4	Incomplete				
	JKAA 19901U	York	3	Incomplete				
	KKEF 143W	York	2	Incomplete				
	KKEF 342U	York (U)	12	-0.6	0.00	+0.03	-2.2	106.1
	KKEF 570S	York	2	Incomplete				
	KKEF 1190W	York	2	Incomplete				
	KKEF 1192W	York	2	Incomplete				
	KKEF 1570W (N)	York	8	-1.1	+0.05	-0.12	+6.4	121.6
	KKEF 1880U	York	2	Incomplete				
	KKEF 1882U	York	2	Incomplete				
	KKEF 1922W	York	2	Incomplete				
	KKEF 2193S (U)	York	18	-1.2	+0.01	-0.07	+3.4	114.8
	KKEF 2324U	York	4	Incomplete				
	KKEF 2567U (N)	York	8	-1.0	+0.03	-0.01	-1.0	116.7
	KKEF 2642U	York	4	Incomplete				
	KKEF 2701S (U)	York	13	-0.5	-0.03	+0.07	-0.2	99.6
	KKEF 02180T	York	2	Incomplete				
	RITR 774U (N)	York	8	-1.6	-0.04	+0.11	0.0	106.3
	RITR 2131U	York	6	Incomplete				
	TONY 380W	Land	4	Incomplete				
	TONY 1972U	Land	4	Incomplete				
	SMBL 031W	Duroc	2	Incomplete				

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Morinville Colony	RITR 24W	York	4	Incomplete				
	ARHL 919U	Land	2	Incomplete				
	MCMC 85U	Land	6	Incomplete				
	MCMC 125U	Land	2	Incomplete				
	MCMC 150U	Land	2	Incomplete				
	NP 4004U (C)	Hamp	10	-0.8	+0.05	+0.01	-12.8	118.6
Norest Farm	AREE 53W	York	2	Incomplete				
	AREE 262U	York	2	Incomplete				
	JKAA 421T	York	2	Incomplete				
	KKEF 2104U	York	4	Incomplete				
	DUFF 02W (N)	Land	8	+4.1	+0.06	-0.09	+0.1	69.2
	LAST 13U	Land	2	Incomplete				
Reiter Farms	ARHL 795U (N)	York	20	-0.9	+0.08	-0.14	-9.2	126.6
	JKAA 19904U (N)	York	12	-0.8	+0.03	-0.07	-2.0	115.8
	KKEF 11W	York	4	Incomplete				
	KKEF 440T (U)	York	31	-0.5	0.00	-0.02	0.0	103.8
	KKEF 662U	York	2	Incomplete				
	RITR 1054W	York	8	+0.6	+0.09	-0.08	-9.4	112.5
	RITR 1507U	York	6	Incomplete				
	ARHL 173W	Land	4	Incomplete				
	ARHL 375W	Land	2	Incomplete				
	TONY 615U (U)	Land	16	+0.7	+0.04	-0.04	0.0	102.8
	AHKP 580T (U)	Hamp	16	-0.6	-0.02	-0.03	0.0	101.1
	SMBL 300W	Duroc	2	Incomplete				
	HILL 161T	Duroc	10	+0.8	-0.01	+0.06	0.0	90.3
Roeske, Murray	AWGF 788U (N)	York	8	-0.6	-0.06	+0.13	0.0	94.1
	ROSE 25W	York	4	-1.6	-0.05	-0.11	-0.3	107.8
	ROSE 282W	York	2	Incomplete				
	ROSE 336T (U)	York	16	+0.7	-0.05	+0.07	0.0	80.6
Wilhelm, L.	FXM 8W	York	2	Incomplete				
	LWAS 3W	York	1	Incomplete				
Wakeena Farm	KEEN 342W	York	4	Incomplete				
	DUFF 171U (C)	Land	8	-0.7	-0.02	-0.10	0.0	104.1
	KEEN 186U	Land	4	Incomplete				
	KEEN 322W	Land	6	Incomplete				
Alberta A.I.	ANLG 505T	York	2	Incomplete				
	ARHL 1W	York	2	Incomplete				
	ATAF 5421W	York	4	Incomplete				
	ATJG 484W (N)	York	10	+0.76	+0.03	-0.01	-5.3	99.1
	ARRK 2186U (N)	York	14	-1.6	-0.04	-0.10	0.0	108.6
	FGBE 508U	York	6	Incomplete				
	KKEF 1490T (C)	York	10	-0.4	+0.02	-0.09	-1.4	107.6
	RITR 924T (N)	York	14	-0.6	+0.05	+0.04	-7.9	116.6

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (Kg/day)	Feed Conv.	Age (days)	Index
Alberta A.I. (continued)	RITR 1174U	York	4	Incomplete				
	ROSE 501U	York	7	Incomplete				
	YRZN 575T (C)	York	8	-0.45	-0.01	+0.03	-0.9	103.6
	AREE 361U	Land	2	Incomplete				
	ARHL 956U	Land	4	Incomplete				
	EDJL 142U	Land	4	Incomplete				
	ATAF 102W	Hamp	2	Incomplete				
	VBSF 304U	Hamp	3	Incomplete				
	AOUD 858T	Duroc	2	Incomplete				
	RITR 1510U	Duroc	2	Incomplete				
Ontario A.I.	ANZI 1324U	York	4	Incomplete				
	ANZI 3461R	York	2	Incomplete				
	ANZI 01160R	York	2	Incomplete				
	ATCH 469U	York	6	Incomplete				
	ATCH 361T	ChWh	6	Incomplete				
U.S.A. A.I.	USA 0774T	York	4	Incomplete				
	USA 6010T	York	6	Incomplete				
	USA 18005T	York	4	Incomplete				

TABLE VI

BOAR SALE ACTIVITY IN ALBERTA

1977 - 1987

YEAR	LOCATION	NUMBER SOLD	TOTAL SALES ($)	AVERAGE PRICE ($)
1988	Leduc	168	79,950	475.89
	Lacombe	39	22,525	577.56
The Lacombe station was closed March 31, 1988 to December 1, 1988.				
1987	Leduc	120	61,875	515.63
	Lacombe	118	59,285	502.42
		238	121,160	509.08
1986	Leduc	111	55,835	503.02
	Lacombe	109	54,650	501.38
		220	110,485	502.20
1985	Leduc	81	34,055	420.42
	Lacombe	105	48,360	460.57
		186	82,415	443.09
1984	Leduc	129	61,435	476.24
	Lacombe	138	68,470	496.16
		267	129,905	486.54
1983	Leduc	95	40,160	422.74
	Lacombe	128	60,355	471.52
		223	100,515	450.74
In 1983 Leduc Station missed one fill due to interior renovations.				
1982	Leduc	143	63,765	445.91
	Lacombe	136	69,235	509,08
		279	133,000	476.70
1981	Leduc	77	35,435	460.19
	Lacombe	154	81,930	532.01
		231	117,365	508.07
1980	Leduc	100	38,190	382.00
	Lacombe	135	66,590	493.00
		235	104,780	437.50
1979	Leduc	113	45,605	403.58
	Lacombe	175	85,500	488.57
		288	131,105	455.23
1978	Leduc	126	57,545	456.71
	Lacombe	116	52,535	452.89
		242	110,080	454.88

PART C: HOME TEST RESULTS

TABLE VII

ALBERTA SWINE HOME TESTING ACTIVITY
1988 SUMMARY

Number of Pigs Tested Per Farm	Number of Breeders	% of Breeders	Total Number of Pigs	% of Pigs
20 or less	11	15	91	0.5
20-50	9	12	290	1.5
51-100	8	11	593	3.0
101-200	15	21	2112	11.0
201-500	17	23	4785	25.0
500 & over	13	18	11313	59.0
TOTAL	73	100	19184	100

TABLE VII (a)

ALBERTA SWINE HOME TESTING ACTIVITY
1987 SUMMARY

Number of Pigs Tested Per Farm	Number of Breeders	% of Breeders	Total Number of Pigs	% of Pigs
20 or less	9	11	57	0.3
20-50	13	16	416	2.2
51-100	8	10	564	3.0
101-200	22	28	3239	16.9
201-500	15	19	4259	22.2
500 & over	13	16	10612	55.4
TOTAL	80	100.0	19147	100.0

TABLE VIII

HOME TESTED BOARS - BY BREED

	1988			1987		
BREED	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)
Yorkshire	2478	12.9	154	2444	13.1	154
Landrace	802	12.7	149	879	13.4	150
Lacombe	664	14.4	148	406	14.1	149
Hampshire	414	12.3	168	356	12.8	162
Duroc	303	13.3	156	257	13.5	156
Red Wattle	24	19.4	180	49	20.4	176
Crossbred	1584	12.7	152	1825	13.2	155
TOTAL:	6269	13.0	153	6216	13.3	154

TABLE IX

HOME TESTED GILTS - BY BREED

	1988			1987		
BREED	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)
Yorkshire	3199	13.7	160	3018	14.1	161
Landrace	1143	13.5	153	1199	14.1	155
Lacombe	824	15.2	152	478	15.0	157
Hampshire	378	12.6	170	354	13.5	162
Duroc	211	14.4	155	173	14.6	156
Red Wattle	34	21.7	185	54	22.9	179
Crossbred	7126	14.1	164	7655	14.5	165
TOTAL	12915	14.0	161	12931	14.4	163

TABLE X

SEEDSTOCK FARMS
56 Active Users

	BOARS			GILTS		
	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE (days)	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE (days)
Yorkshire	2462	12.9	154	3116	13.7	159
Landrace	802	12.7	149	1143	13.5	153
Lacombe	664	14.0	148	824	15.2	152
Hampshire	414	12.3	168	378	12.6	170
Duroc	298	13.3	156	210	14.3	156
Red Wattle	24	19.4	180	34	21.7	185
Crossbred	1454	12.8	151	3941	14.2	159
Total	6118	13.0	153	9646	14.0	158

COMMERCIAL FARMS
18 Active Users

Yorkshire	16	12.3	151	83	14.6	171
Landrace						
Lacombe						
Hampshire						
Duroc	5	13.5	156	1	15.0	144
Red Wattle						
Crossbred	130	12.2	153	3185	14.0	169
Total	151	12.2	153	3269	14.0	169

OVERALL TOTALS

	6269	13.0	153	12915	14.0	161

TABLE XI

HOME TEST AVERAGES BY SEX AND BREED

As feeding management and environmental factors under which pigs are home tested can vary significantly between the various herds, and since limited numbers do not reflect true averages, the following herd averages should not be considered as a total measure of the genetic merit of the pigs tested in each herd.

SEEDSTOCK FARMS

YORKSHIRE

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Acadia Breeders	M	174	12.7	148
	F	205	13.4	151
Agra Farms	M	3	12.1	144
	F	17	12.9	149
Barrett, R. & A.	M	46	12.7	145
	F	57	14.2	153
Bloomsbury Farms	M	144	14.5	143
	F	153	16.3	145
Braat, J.	M	68	11.5	147
	F	175	12.6	157
Brownlee, J.	M	81	13.9	165
	F	87	14.6	171
Carrich Stock Farm	M	3	10.4	183
	F	3	12.8	184
Deschner Farms	M	7	10.2	175
	F	7	11.2	175
Eidse, L.	M	25	16.8	152
	F	33	17.9	155
Eringfeld, B.	M	54	12.9	168
	F	72	14.3	175
Five Lakes Farms	M	282	11.7	171
	F	333	12.5	174
Gilt Line Farms	M	71	13.2	162
	F	81	14.2	168

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE 90 KG. (days)
Gwynne Vista Farms	M	182	11.4	159
	F	216	12.4	164
Knobben, G.	M	52	13.3	151
	F	36	13.7	158
Knobben, J.	M	44	12.3	158
	F	46	13.9	154
Maschmeyer, D.	M	57	14.6	148
	F	60	15.8	151
Maschmeyer, G.	M	54	15.4	145
	F	61	16.1	150
Matejka, G.	M	294	12.0	152
	F	315	13.1	166
McCarthy, J.	M	3	15.4	134
	F	2	14.2	142
Milne, B.	M	137	10.9	143
	F	180	11.5	147
Morinville Colony	M	6	11.7	153
	F	9	13.4	154
Neufeld Farms	M	4	12.8	162
	F	5	11.8	162
Norest Farms	M	33	14.5	155
	F	54	16.4	154
Papenhuyzen, C.	M	51	15.7	168
	F	57	16.8	173
Reiter Farms	M	180	12.0	144
	F	335	12.8	153
Rice, R.	M	7	15.3	168
	F	18	16.2	171
Roeske, M.	M	96	13.0	144
	F	229	14.9	157
Thiessen, R.	M	37	16.2	161
	F	42	14.6	146

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Turko, D.	M	47	14.9	150
	F	55	15.9	158
Vandenberg, J.	M	148	14.5	148
	F	30	16.3	151
Wakeena Farm	M	8	11.9	169
	F	20	13.1	169
Weber Farms	M	52	13.3	158
	F	117	14.5	163
Wilhelm, L.	M	12	19.0	166
	F	6	18.7	166
	LANDRACE			
Acadia Breeders	M	182	12.3	147
	F	194	13.2	151
Agra Farms	M	3	12.5	151
	F	2	11.8	144
Barrett, R. & A.	M	81	12.7	135
	F	99	13.6	140
Braat, J.	M	23	14.0	145
	F	42	15.4	149
Carrich Stock Farm	M	2	12.7	181
Dieterman, B.	M	6	15.6	155
	F	7	14.8	143
Duff, B.	M	3	12.5	142
	F	3	13.2	161
Duff, D.	M	69	13.0	153
	F	143	14.3	152
Eringfeld, B.	M	2	15.7	163
	F	1	13.7	197
Gilt Line Farms	M	27	13.2	153
	F	24	15.8	159
Homequest Farms	F	3	12.9	156
Knobben, G.	M	7	11.0	156
	F	10	12.0	158

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Knobben, J.	M	16	12.9	162
	F	13	13.4	151
Lakeland College	M	108	13.5	157
	F	172	14.5	161
Maschmeyer, G.	M	10	13.8	145
	F	12	13.5	149
Matejka, G.	M	9	12.9	145
	F	2	13.8	173
Matejka, T.	M	17	13.0	155
	F	29	13.1	160
McCarthy, K.	M	2	11.6	129
	F	4	13.0	133
Milne, B.	M	91	10.8	143
	F	147	11.7	145
Morinville Colony	M	36	12.9	160
	F	53	18.3	158
Neufeld Farms	M	16	13.3	155
	F	10	13.7	155
Norest Farms	M	9	16.2	156
	F	26	15.9	156
Papenhuyzen, C.	M	1	11.8	174
	F	9	11.4	178
Reiter Farms	M	49	12.2	146
	F	67	11.7	158
Thiessen, R.	M	10	14.3	146
	F	13	15.5	147
Vandenberg, J.	M	3	15.8	162
	F	5	14.4	153
Wakeena Farm	M	20	12.3	158
	F	53	12.9	162
		LACOMBE		
Bloomsbury Farms	M	413	15.3	139
	F	455	16.2	142

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Five Lakes Farms	M	108	12.3	169
	F	139	12.9	170
Glengranum Farms	M	30	17.0	141
	F	40	17.3	145
Gwynne Vista Farms	M	113	12.6	159
	F	190	14.1	166
		HAMPSHIRE		
Bloomsbury Farms	M	68	13.1	151
	F	55	13.7	155
Braat, J.	M	16	13.9	143
	F	19	14.8	145
Brownlee, J.	M	47	11.5	175
	F	37	11.8	178
Bugeaud, R.	M	3	13.6	152
	F	7	14.6	156
Five Lakes Farms	M	129	11.8	184
	F	97	11.6	183
Gwynne Vista Farms	M	7	11.8	161
	F	6	11.6	175
Leaning Spruce	M	27	11.9	160
	F	59	12.1	167
Matejka, S.	M	1	13.9	155
Morinville Colony	M	10	12.2	154
	F	19	12.1	164
Norest Farms	M	1	13.1	177
	F	3	13.3	172
Papenhuyzen, C.	M	64	12.3	174
	F	56	13.0	175
Reiter Farms	M	34	12.4	152
	F	18	13.5	160
Turko, D.	M	4	15.1	147
	F	2	14.3	149
Vandenberg, J.	M	3	13.7	158

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
		DUROC		
Braat, J.	M	34	12.7	146
	F	32	14.7	151
Deschner Farms	M	3	11.9	185
	F	2	13.1	192
Gilt Line Farms	M	26	13.3	163
	F	11	16.6	157
Knobben, J.	M	1	11.0	154
	F	2	12.9	152
Lakeland College	M	6	14.0	154
	F	9	14.1	158
Maschmeyer, G.	M	95	13.3	156
	F	64	13.9	153
Matejka, G.	M	7	13.0	152
	F	7	13.9	161
Matejka, S.	M	13	11.7	163
	F	10	14.8	166
Milne, B.	M	3	12.3	148
	F	8	13.0	145
Neufeld Farms	M	20	13.7	165
	F	6	14.4	158
Papenhuyzen, C.	M	9	13.4	158
	F	7	15.9	163
Papenhuyzen, C.W., Jr.	M	1	13.2	174
	F	4	15.6	164
Reiter Farms	M	16	13.5	149
	F	20	14.0	157
Rice, R.	M	9	13.8	164
	F	5	13.1	158
Vandenberg, J.	M	55	13.8	154
	F	23	14.7	157

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
CROSSBRED OR COMMERCIAL				
(i.e. any pigs that cannot be identified as belonging to a certain breed)				
Barrett, R. & A.	M	3	11.8	143
	F	17	14.0	142
Bloomsbury Farms	M	106	14.4	138
	F	223	15.8	139
Braat, J.	M	44	13.0	142
	F	116	14.4	150
Carrich Stock Farms	M	1	10.7	200
	F	2	13.4	171
Chauvet, M.	M	5	12.7	161
	F	258	14.8	161
Deschner Farms	M	38	12.0	166
	F	81	13.6	176
Eidse, L.	M	8	11.8	148
	F	126	15.4	160
Eringfeld, B.	M	3	14.9	178
	F	12	15.6	177
Gilt Line Farms	M	7	12.3	165
	F	409	14.3	158
Groot, C.	M	92	12.4	158
	F	295	13.3	168
Gwynne Vista Farms	M	1	12.5	145
	F	241	12.9	162
Homequest Farms	F	4	11.3	168
Jacobsson, G.	F	33	13.0	173
Lakeland College	M	15	13.3	147
	F	41	13.8	155
McLenaghan, M.	F	87	15.8	157
Maschmeyer, D.	M	5	12.8	141
	F	2	11.7	141

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Maschmeyer, G.	M	13	15.0	149
	F	21	15.6	155
Matejka, G.	F	11	14.4	161
Matejka, T.	M	3	11.9	141
Milne, B.	M	15	11.4	143
	F	139	12.0	145
Neufeld Farms	M	118	13.6	153
	F	2	13.6	169
Norest Farms	M	3	16.4	163
	F	161	15.3	161
Old House Farms	F	30	13.0	178
Olds College	F	456	15.9	158
Ranchview Test Barn	M	688	12.6	152
	F	400	13.3	165
Ranchview "B"	M	242	12.2	155
	F	537	13.0	158
Reiter Farms	M	14	11.8	146
	F	7	10.7	148
Thiessen, R.	M	3	15.9	140
	F	88	16.3	154
Vandenberg, J.	M	27	15.5	127
Wakeena Farm	F	5	13.0	157
Weber Farms	F	54	14.8	157
Wierenga, C.	F	83	14.6	167
		RED WATTLE		
Penalta Red Wattles	M	24	19.4	180
	F	34	22.0	185

COMMERCIAL FARMS

BREEDER	BREED & SEX		NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
'Commercial' breed means any pigs that cannot be identified as belonging to a certain breed. "Red" means Red Wattle.					
A. & J. Tersteeg	York	F	30	15.0	182
Farms Ltd.	Comm	F	129	14.0	165
Baert, M.	York	F	10	12.6	155
	Duroc	M	5	13.5	156
	Duroc	F	1	15.0	144
	Comm	M	13	12.3	151
	Comm	F	61	14.1	151
Bontrup, M.	Comm	F	9	12.7	156
Gray, L.	York	F	1	15.8	109
Hall, D.	Comm	F	30	15.5	174
Hillary, W.	Comm	F	55	13.7	164
Isaac, H.	Comm	F	217	15.6	185
Hutterville Colony	York	M	3	12.9	156
	York	F	34	14.8	171
	Comm	F	167	15.3	168
Koot, H.	Comm	F	64	14.1	167
L & H Gollnick	York	M	11	11.9	163
Farms Ltd.	York	F	731	13.9	179
Lenz Farms	Comm	F	112	14.2	172
Leussink, J.	York	M	13	12.2	150
	York	F	8	14.5	154
Little, R.R.& G.J.	Comm	F	159	14.9	173
Northern Lights	Comm	F	134	14.7	200
College		M	2	11.3	170
Pain, S.	Comm	F	201	14.0	167
Slingerland, B.	Comm	M	29	11.7	144
	Comm	F	194	12.3	155

COMMERCIAL FARMS

BREEDER	NUMBER BREED & SEX		AVERAGE BACKFAT TESTED (mm)	AGE TO 90 KG. (days)
Stern, R.	Comm	M	2	11.9	143
	Comm	F	37	11.8	170
Vandendool, J.	Comm	M	73	12.4	155
	Comm	F	885	13.5	159

TABLE XII

SOW PRODUCTIVITY AND MANAGEMENT PROGRAM

42 Active Herds

	YORKS	LAND	LAC	HAMP	DUROC	REDS	COMM	TOTAL
Litters Weaned	1,722	638	243	218	53	7	3,737	6,618
Pigs Weaned	14,971	5,637	1,958	1,613	391	48	33,571	58,189
Services/Farrowing	1.1	1.1	1.0	1.1	1.0	1.3	1.1	1.1
Farrowing Interval (Days)	161	156	171	165	153	157	156	158
Weaning to Conception (Days)	16.0	12.0	28.8	20.0	10.0	15.2	13.3	14.6
Total Born/Litter	10.7	10.9	10.1	9.6	11.1	9.3	11.0	10.8
Born Live/Litter	9.6	9.8	8.9	8.5	9.6	7.7	9.9	9.7
Pre-Wean Mortality (%)	11.9	11.8	14.8	16.8	21.1	14.5	10.4	11.4
Pigs Weaned/Litter	8.7	8.8	8.1	7.4	7.4	6.9	9.0	8.8
Litters/Sow/Year	2.3	2.3	2.1	2.2	2.4	2.3	2.3	2.3
Pigs Weaned Per Sow Per Year	20.0	20.2	17.0	16.3	17.8	15.9	20.7	20.2
Kg of Pigs at 21 Days Per Sow Per Year	116.4	127.0	108.6	92.6	95.8	73.6	121.7	119.6

REDS = Red Wattle

The herds which are on the Sow Productivity Program are not necessarily the same ones that are on the performance testing program.